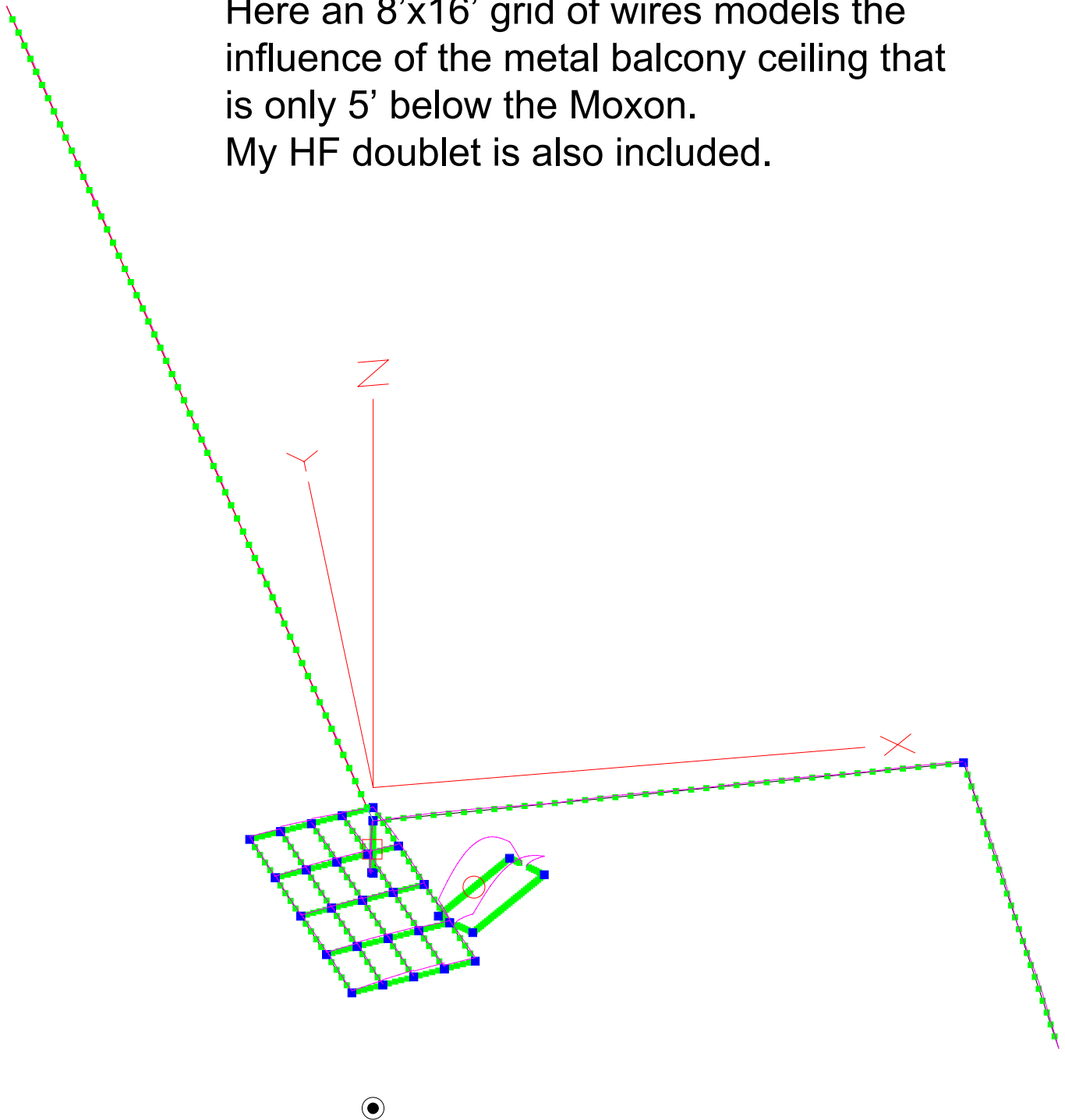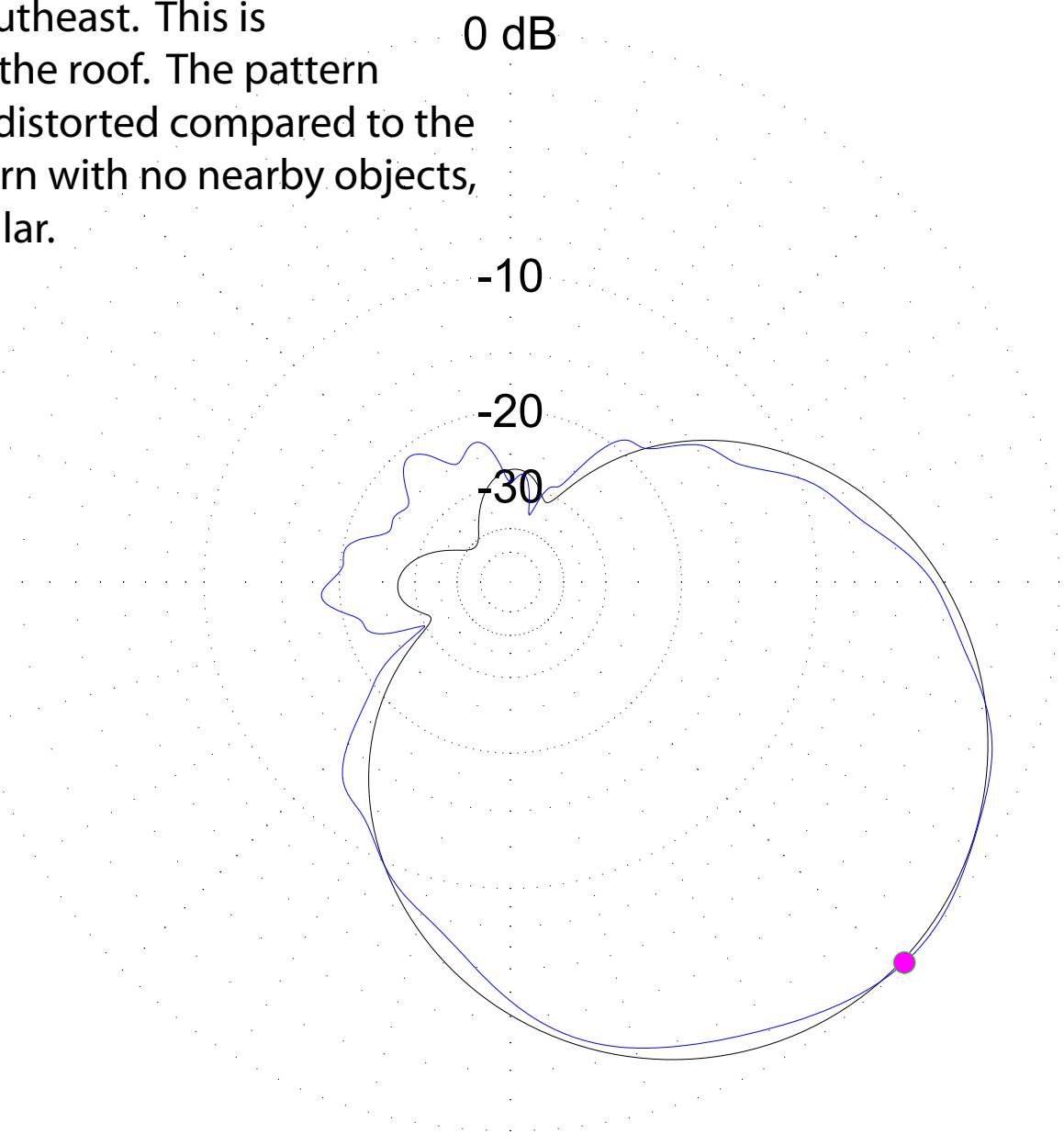What about the REAL installation?
Here an 8'x16' grid of wires models the
influence of the metal balcony ceiling that
is only 5' below the Moxon.
My HF doublet is also included.

0 dB

This is a plot of the Moxon
pointed southeast. This is
away from the roof. The pattern
looks a bit distorted compared to the
black pattern with no nearby objects,
but it's similar.

-10

-20

-30

50.2 MHz

Moxon Rectangle

		Cursor Az	316.0 deg.
Azimuth Plot		Gain	11.54 dBi
Elevation Angle	10.0 deg.		-0.02 dBmax
Outer Ring	11.56 dBi		0.1 dBPrTrc

Slice Max Gain   11.56 dBi @ Az Angle = 318.0 deg.
Front/Back   23.36 dB
Beamwidth   73.0 deg.; -3dB @ 278.2, 351.2 deg.
Sidelobe Gain   -6.7 dBi @ Az Angle = 184.0 deg.
Front/Sidelobe   18.26 dB

0 dB

-10

-20

-30
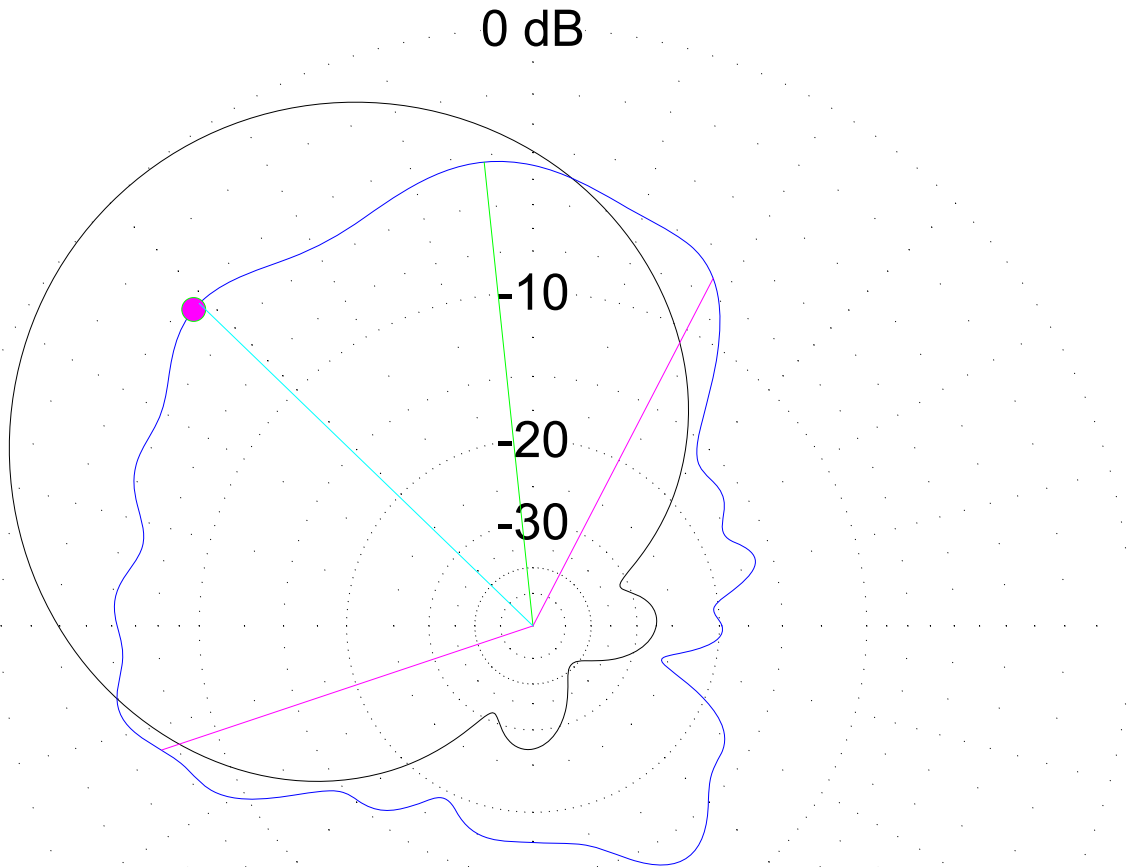
Now the plot of the Moxon
pointed northwest. This is
across the roof for some distance.
The pattern is trashed. This is the
most distorted direction. The
rest of the patterns are between
these extremes.

50.2 MHz

Moxon Rectangle

Azimuth Plot

Elevation Angle   10.0 deg.

Outer Ring   11.44 dBi

Cursor Az   137.0 deg.

Gain   7.1 dBi

-0.09 dBmax

-4.34 dBPrTrc

Slice Max Gain   7.19 dBi @ Az Angle = 96.0 deg.

Front/Back   13.0 dB

Beamwidth   135.9 deg.; -3dB @ 62.6, 198.5 deg.

Sidelobe Gain   7.1 dBi @ Az Angle = 136.0 deg.

Front/Sidelobe   0.08 dB